

**AMENDMENTS TO THE CLAIMS:**

This listing of the claims will replace all prior listings and versions of claims in the application:

1-10 (canceled)

11. (original) A method for detecting a CYP2D6 genotype of a sample, comprising:

- a) providing:
  - i) a sample comprising a target nucleic acid;
  - ii) a detection assay configured to detect at least two CYP2D6 polymorphic sequences and to detect CYP2D6 copy number;
- b) exposing said sample to said detection assay under conditions such that said at least two CYP2D6 polymorphic sequences are detected and CYP2D6 copy number is detected, thereby detecting a CYP2D6 genotype of said sample.

12. (original) The method of Claim 11, wherein said detection assay comprises an invasive cleavage assay.

13. (original) The method of Claim 11, wherein said target nucleic acid is amplified prior to said exposure step.

14. (original) The method of Claim 11, wherein said detection assay is configured to detect the copy of number of the CYP2D6 gene and, separately, the copy number of a least one portion of the CYP2D6 gene.

15. (canceled)

16. (original) The method of Claim 11, wherein said detection assay further detects a copy number of at least one of said polymorphic sequences.

17-24 (canceled)